Cooperative Agricultural Pest Survey

A Program to Detect Plant Pests And Diseases of Regulatory Concern

Bradley A. Danner
State Survey Coordinator
FDACS-DPI-CAPS

Krystal Ashman
Identifier
FDACS-DPI-CAPS

Morgan A. Byron, D.P.M.
Pest Survey Specialist
FDACS-DPI-CAPS

Robert Leahy
Pest Survey Specialist
USDA-CAPS

Jake Farnum
Pest Survey Specialist
FDACS-DPI-CAPS

Glen Gardner
GIS/Mapping Specialist
FDACS-DPI-CAPS

How GIS is Used in CAPS

- Pest Risk
- Reporting of Survey Activity
- Survey Planning
- Demographic Analysis
- Agricultural Emergency Programs

Pest Risk

- Pathway Analysis
- Host Material Identification
- Transportation Vectors
- Worldwide Coverage of Pests

Reporting of Survey Activity

- NAPIS – Pest Tracker(http://pest.ceris.purdue.edu/)
- Annual Reports
- Annual Mapbook
- Continual Program Reporting

Survey Planning

- Host Material Identification
- Scope of Work Analysis
- Area of Coverage vs Available Personnel
- Work Zones
- Office Location Optimization
- Routing

Demographic Analysis

- American Community Survey
- Pest Home Country Population Concentration
- Urban / Rural
- Agricultural Areas
- Agricultural Statistics

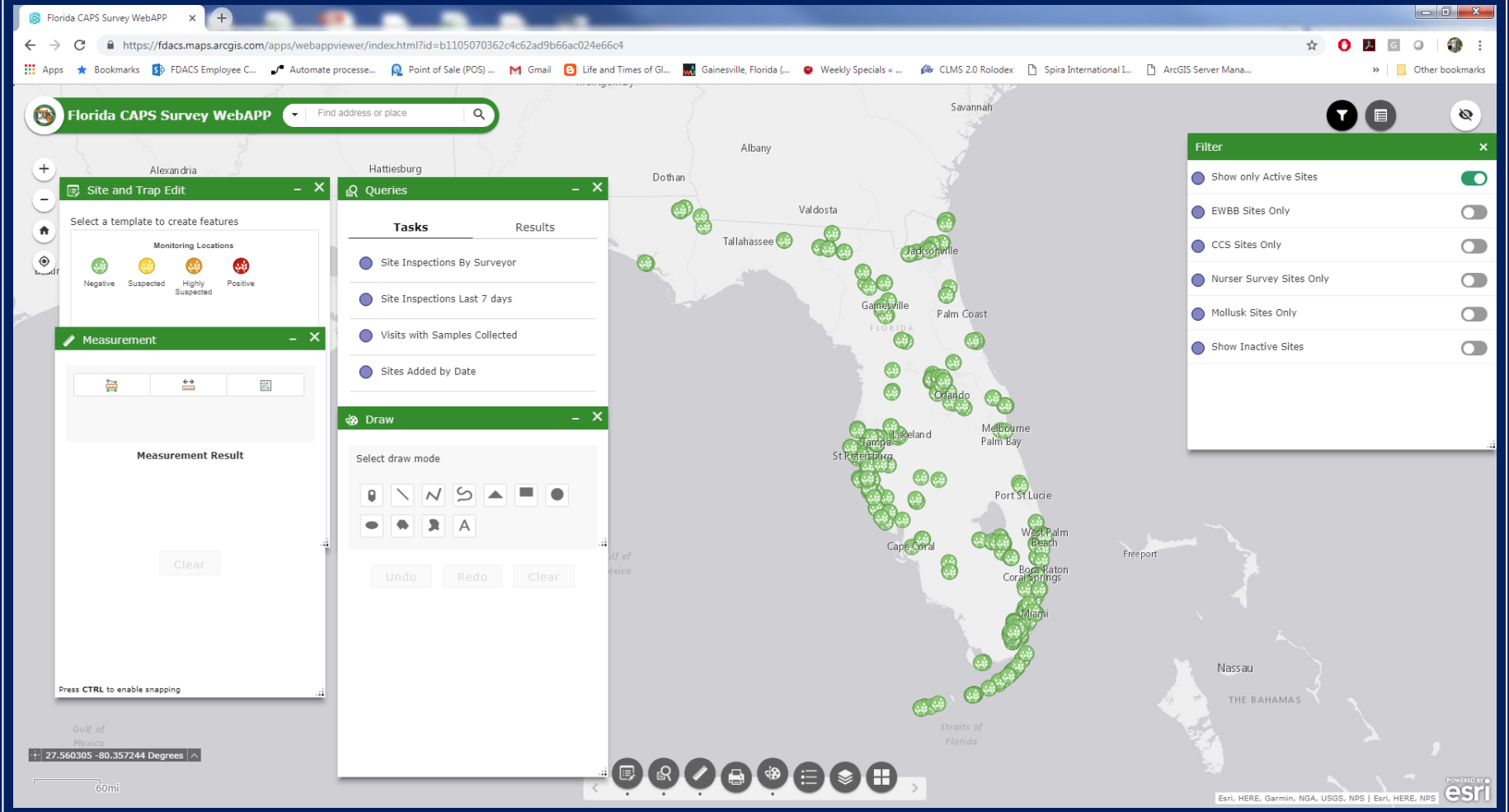
Agricultural Emergency Programs

- Emergency Program Situation Reports
- Interceptions
- US, State, and County Records
- All of the Survey Planning Functions Apply

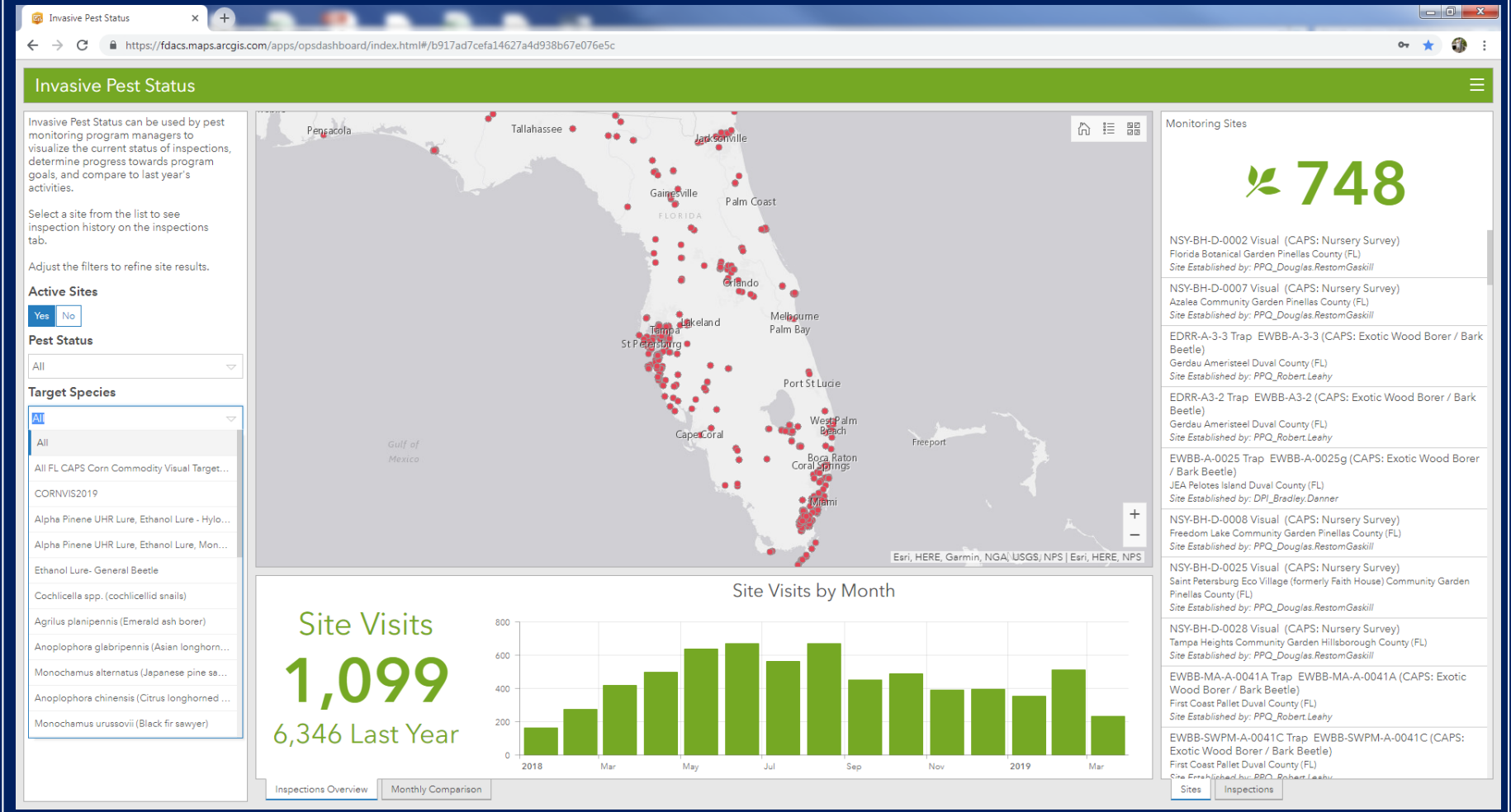
Future Plans for GIS

- Increased Use of Web Based Tools
  - Web Mapping Applications
  - Dashboards
- Increased use of Modeling/Scripting
- Expand ESRI Survey123 Data Collection
- Move DB's to SQL Server or ArcGIS Online and host as internal and external Feature Services

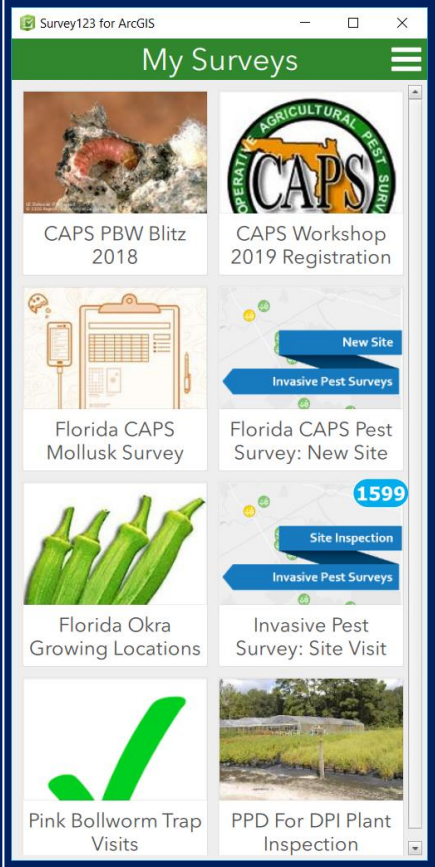
Web Application for viewing and editing field data collected from Survey123

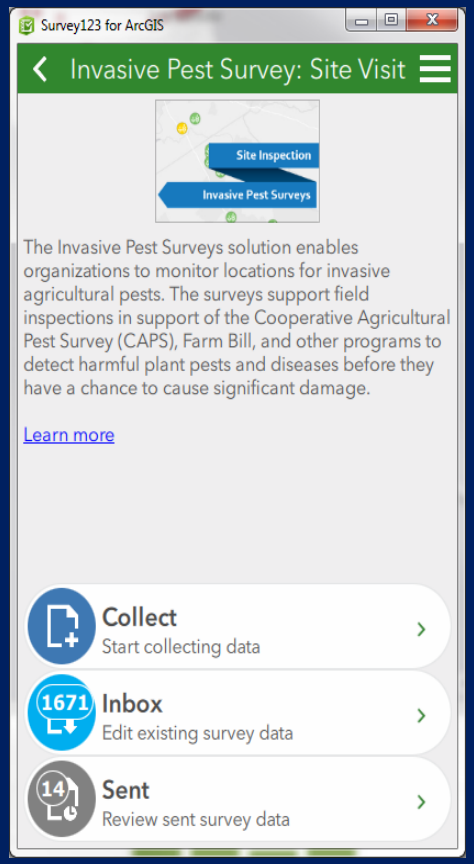


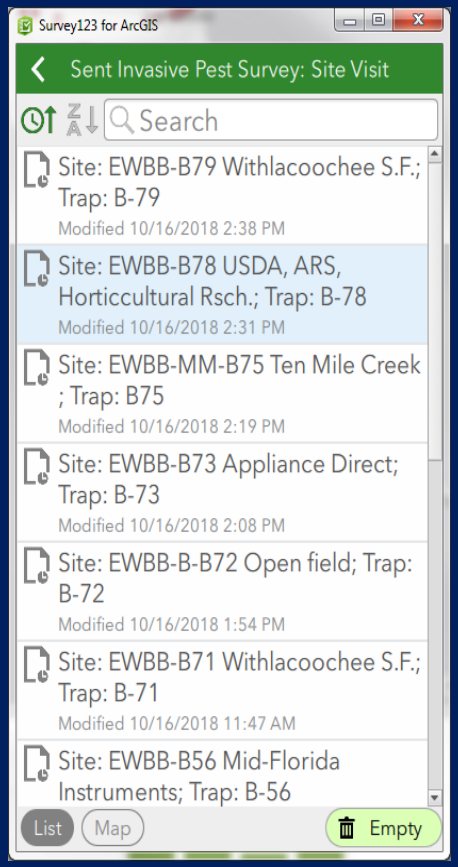
Dashboard for viewing and analyzing field data collected from Survey123

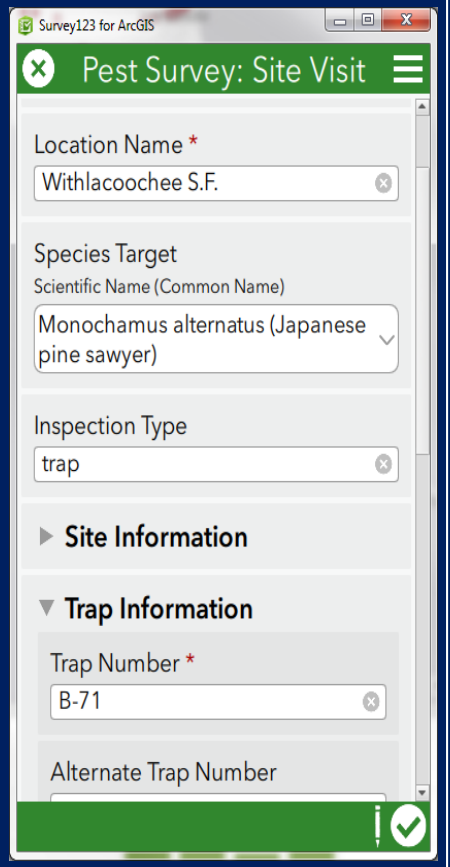


Survey123 Data Collection Apps

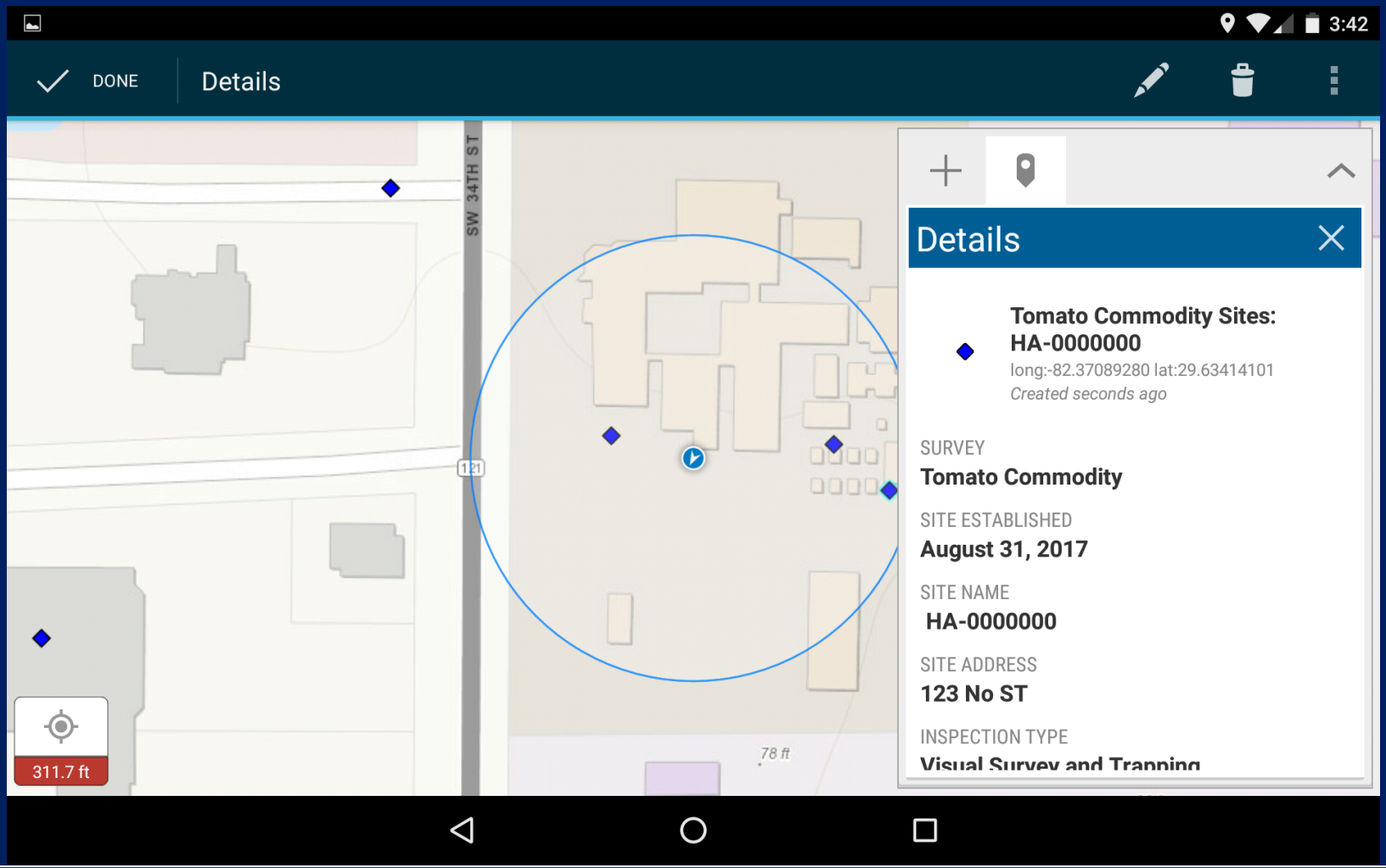








ESRI Collector OWB/Tomato Commodity Farm Bill Data Collection App



Thank You!